

FLUID MECHANICS

- .. the surface tension of water in air is approx. 0.0756 N/m . If the atmospheric pressure is 101 kPa , what is the pressure inside a droplet 0.165 mm in diameter?

For spherical droplet,

$$\Delta P = P_{in} - P_{out}$$

$$\frac{2\sigma}{r} = P_{in} - P_{out}$$

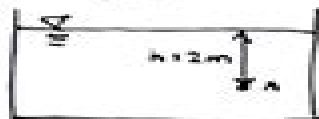
$$P_{in} = P_{out} + \frac{2\sigma}{r}$$

$$= 101 \text{ kPa} + \frac{2 (7.56 \times 10^{-5})}{\frac{1}{2} (16.5 \times 10^{-5})}$$

$$= 101 \text{ kPa} + 1.833 \text{ kPa}$$

$$P_{in} = 102.833 \text{ kPa}$$

2. What is the gage pressure at point A if $h = 2 \text{ m}$ in a tank of water?



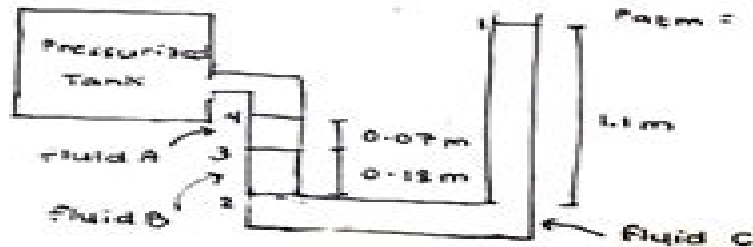
$$P = \rho g h$$

$$= (1000)(9.81)(2 \text{ m})$$

$$= 19,620 \text{ Pa}$$

$$P = 19.62 \text{ kPa}$$

3. Find the pressure in the tank from the manometer reading below:



$$P_{atm} = 100 \text{ kPa}$$

$$\text{fluid A, } \rho_A = 580 \text{ kg/m}^3$$

$$\text{fluid B, } \rho_B = 700 \text{ kg/m}^3$$

$$\text{fluid C, } \rho_C = 1000 \text{ kg/m}^3$$

$$P_2 - P_1 = \rho_C g (z_1 - z_2)$$

$$P_3 - P_2 = \rho_B g (z_2 - z_3)$$

$$P_3 - P_4 = \rho_A g (z_3 - z_4)$$

$$P_4 - P_1 = \Sigma P$$

$$= P_1 + g [\rho_C (z_1 - z_2) + \rho_B (z_2 - z_3) + \rho_A (z_3 - z_4)]$$

$$= 100,000 + (9.81) [1000(1) + 700(0.18) + 580(0.07)]$$

$$P = 108,175.654 \quad \text{or} \quad P = 108.18 \text{ kPa}$$

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Yicheng Fang



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